s cycloolefin polymers
        477 CYCLOOLEFIN
    181043 POLYMERS
L1   57 CYCLOOLEFIN POLYMERS
        (CYCLOOLEFIN(W)POLYMERS)
=> s L1 and inorganic fillers
    174497 INORGANIC
     67129 FILLERS
      6150 INORGANIC FILLERS
        (INORGANIC(W)FILLERS)
L2   10 L1 AND INORGANIC FILLERS
=> s L2 and titanium dioxide and barium sulfate and calcium sulfate and calcium carbonate and barium
carbonate
    122112 TITANIUM
    159897 DIOXIDE
     33407 TITANIUM DIOXIDE
        (TITANIUM(W)DIOXIDE)
     55906 BARIUM
    155738 SULFATE
     12635 BARIUM SULFATE
        (BARIUM(W)SULFATE)
    169577 CALCIUM
    155738 SULFATE
     13031 CALCIUM SULFATE
        (CALCIUM(W)SULFATE)
    169577 CALCIUM
    160570 CARBONATE
     49712 CALCIUM CARBONATE
        (CALCIUM(W)CARBONATE)
     55906 BARIUM
    160570 CARBONATE
      4113 BARIUM CARBONATE
        (BARIUM(W)CARBONATE)
L3   0 L2 AND TITANIUM DIOXIDE AND BARIUM SULFATE AND CALCIUM SULF
ATE
        AND CALCIUM CARBONATE AND BARIUM CARBONATE
=> s L2 and titanium dioxide
    122112 TITANIUM
    159897 DIOXIDE
     33407 TITANIUM DIOXIDE
        (TITANIUM(W)DIOXIDE)
s L2 and sulfate
    155738 SULFATE
L5   10 L2 AND SULFATE
=> s L2 and carbonate
    160570 CARBONATE

Searched file EPO as well 10/29/98.
BA.

UPDATED APS SEARCH   08/957,187

=> s cycloolefin or cyclolefin

          511 CYCLOOLEFIN
          22 CYCLOLEFIN
L1   515 CYCLOOLEFIN OR CYCLOLEFIN

=> s L1 and (polymer or copolymer)

          238839 POLYMER
          121779 COPOLYMER
L2   433 L1 AND (POLYMER OR COPOLYMER)

=> s L2 and (multilayer or laminate or composite)

          29626 MULTILAYER
          46667 LAMINATE
          170359 COMPOSITE
L3   87 L2 AND (MULTILAYER OR LAMINATE OR COMPOSITE)

=> display L3 1-87 ab
=> s 428/500/ccls or 428/515/ccls or 428/516/ccls or 428/518/ccls or 428/519/ccls or 428/521/ccls or 428/523/ccls

          1890 428/500/CCLS
          809 428/515/CCLS
          1913 428/516/CCLS
          1005 428/518/CCLS
          499 428/519/CCLS
          735 428/521/CCLS
          881 428/523/CCLS
L4   5879 428/500/CCLS OR 428/515/CCLS OR 428/516/CCLS OR 428/518/CCL
S O
          R 428/519/CCLS OR 428/521/CCLS OR 428/523/CCLS

=> s L4 and (cycloolefin or cyclolefin or cyclic olefin)

          511 CYCLOOLEFIN
          22 CYCLOLEFIN
          107037 CYCLIC
          47048 OLEFIN
          504 CYCLIC OLEFIN
            (CYCLIC(W)OLEFIN)
L5   28 L4 AND (CYCLOOLEFIN OR CYCLOLEFIN OR CYCLIC OLEFIN)

=> display L5 1-28 ab

APS SEARCH 08/957,187

```
s norbornene
L1     6822 NORBORNENE
=> s L1 and composite films
       162325 COMPOSITE
       134990 FILMS
          947 COMPOSITE FILMS
               (COMPOSITE(W)FILMS)
s films
L1    134990 FILMS
=> s L1 and cycloolefin polymer
        477 CYCLOOLEFIN
       226797 POLYMER
         48 CYCLOOLEFIN POLYMER
              (CYCLOOLEFIN(W)POLYMER)
s cycloolefin polymer and water vapor
        477 CYCLOOLEFIN
       226797 POLYMER
         48 CYCLOOLEFIN POLYMER
              (CYCLOOLEFIN(W)POLYMER)
       723606 WATER
       165712 VAPOR
        32444 WATER VAPOR
              (WATER(W)VAPOR)
s cycloolefin polymer

        477 CYCLOOLEFIN
       226797 POLYMER
L51       48 CYCLOOLEFIN POLYMER
              (CYCLOOLEFIN(W)POLYMER)
=> s cycloolefin polymer
        477 CYCLOOLEFIN
       226797 POLYMER
L1        48 CYCLOOLEFIN POLYMER
s L1 and multilayer
        27754 MULTILAYER
L2         0 L1 AND MULTILAYER
=> s L1 and film
       335731 FILM
s cycloolefin polymer and hydrogenation
        477 CYCLOOLEFIN
       226797 POLYMER
         48 CYCLOOLEFIN POLYMER
              (CYCLOOLEFIN(W)POLYMER)
        41573 HYDROGENATION
s L3 and monoaxially oriented
        901 MONOAXIALLY
       239986 ORIENTED
        287 MONOAXIALLY ORIENTED
              (MONOAXIALLY(W)ORIENTED)
L5         0 L3 AND MONOAXIALLY ORIENTED
=> s L3 and oriented
       239986 ORIENTED
```

```
L6        0 L3 AND ORIENTED
=> s L3 and streching ratio
         175 STRECHING
       559239 RATIO
         5 STRECHING RATIO
           (STRECHING(W)RATIO)
L7        0 L3 AND STRECHING RATIO
=> s L3 and inorganic fillers
       174316 INORGANIC
        67053 FILLERS
         6146 INORGANIC FILLERS
           (INORGANIC(W)FILLERS)
L8        0 L3 AND INORGANIC FILLERS
=> s L1 and inorganic fillers
       174316 INORGANIC
        67053 FILLERS
         6146 INORGANIC FILLERS
           (INORGANIC(W)FILLERS)
L9       15 L1 AND INORGANIC FILLERS
s 428/500/ccls
L1     1820 428/500/CCLS
=> s L1 and cycloolefin
         477 CYCLOOLEFIN
s 425/515/ccls
L3      119 425/515/CCLS
=> s L3 and cycloolefin
         477 CYCLOOLEFIN
L4        0 L3 AND CYCLOOLEFIN
=> s 428/516/ccls
L5     1850 428/516/CCLS
=> s L5 and cycloolefin
         477 CYCLOOLEFIN
L6        9 L5 AND CYCLOOLEFIN
s 428/518/ccls
L7      987 428/518/CCLS
=> s L7 and cycloolefin
         477 CYCLOOLEFIN
L8        1 L7 AND CYCLOOLEFIN
s 428/519/ccls
L9      493 428/519/CCLS
=> s L9 and cycloolefin
         477 CYCLOOLEFIN
s 428/521/ccls
L11     719 428/521/CCLS
=> s L11 and cycloolefin
         477 CYCLOOLEFIN
L12       4 L11 AND CYCLOOLEFIN
s 428/523/ccls
L13     843 428/523/CCLS
=> s L13 and cycloolefin
         477 CYCLOOLEFIN
L14       2 L13 AND CYCLOOLEFIN
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08/957,187

It was not clear whether the application contained 8 claims or 20 claims. I called the attorney on 10/28/97. Upon checking their records the attorney indicated that only 8 claims were filed in the original application. The application file folder lists the number of claims incorrectly as 20 – that number should be 8.

Sheeba Ahmed

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Search Results - Record(s) 1 through 1 of 1 returned.

☐   1.   Document ID: CA 2276728 A1, <u>DE 19828857 A1</u> , EP 968819 A2, JP 2000037833 A
Relevance Rank: 99

L1: Entry 1 of 1   File: DWPI   Dec 29, 1999

DERWENT-ACC-NO: 2000-088340
DERWENT-WEEK: 200024
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TITLE: Production of thermoformable laminated film used for making blister packs, e.g. for pharmaceuticals or food

INVENTOR: BEER, E; HATKE, W

PATENT-ASSIGNEE:

ASSIGNEE	CODE
TICONA GMBH	TICON

PRIORITY-DATA: 1998DE-1028857 (June 29, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2276728 A1	December 29, 1999	E	000	B32B007/12
DE 19828857 A1	December 30, 1999		011	C08L045/00
EP 968819 A2	January 5, 2000	G	000	B32B027/32
JP 2000037833 A	February 8, 2000		010	B32B027/32

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CA 2276728A1	June 29, 1999	1999CA-2276728	
DE 19828857A1	June 29, 1998	1998DE-1028857	
EP 968819A2	June 21, 1999	1999EP-0111882	
JP2000037833A	June 29, 1999	1999JP-0183104	

INT-CL (IPC): <u>B32</u> <u>B</u> <u>7/12</u>; <u>B32</u> <u>B</u> <u>27/32</u>; <u>B32</u> <u>B</u> <u>31/00</u>; <u>B65</u> <u>D</u> <u>65/40</u>; <u>B65</u> <u>D</u> <u>75/36</u>; <u>C08</u> <u>J</u> <u>5/12</u>; <u>C08</u> <u>J</u> <u>5/18</u>; <u>C08</u> <u>L</u> <u>45/00</u>

ABSTRACTED-PUB-NO: DE 19828857A
BASIC-ABSTRACT:

NOVELTY - Production of a thermoformable laminated film involves laminating thermoplastic film(s) (A) to cycloolefin copolymer film(s) (B) using a solvent-free adhesive.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the use of a solvent-free adhesive in this process.

USE - The laminated film is used for making blister packs (claimed) or push-through packaging, e.g. for use in automated packaging and presentation of the product, such as pharmaceuticals in the form of tablets, capsules etc., food, e.g. products containing rice, cookies and snacks, and also water-absorbing articles, such as cigarettes and tea bags.

ADVANTAGE - Cycloolefin polymers have very good water vapor barrier properties but poor resistance to fats. Polyvinyl chloride is normally used in blister packs. Although polyvinylidene chloride coating is often used to increase the gas (especially water vapor) barrier properties,

unoriented polypropylene is preferred for ecological reasons. However, it has poor deep drawing characteristics and high shrinkage. These laminates combine good water vapor barrier properties with good processing, including deep drawing, characteristics. They also gave good resistance to fats and can be made by an economical and environmentally friendly process.

CHOSEN-DRAWING: Dwg.0/3

TITLE-TERMS: PRODUCE LAMINATE FILM BLISTER PACK PHARMACEUTICAL FOOD

DERWENT-CLASS: A17 A92 B07 G03 P73 Q34

CPI-CODES: A04-G01E; A11-C01C; A12-P06C; B04-C03B; B11-C06; G03-B01; G03-B02;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
    Fragmentation Code
    H6   H602 H682 H7   H713 H721 M210 M212 M250 M281
    M320 M423 M781 M904 M905 Q331 R043 R045
    Specfic Compounds
    A01ECK A01ECQ A01ECU

Chemical Indexing M1 *02*
    Fragmentation Code
    H7   H721 M210 M213 M231 M320 M423 M510 M520 M530
    M540 M610 M781 M904 M905 M910 Q331 R043 R045
    Specfic Compounds
    A009XK A009XQ A009XU

Chemical Indexing M6 *03*
    Fragmentation Code
    M905 R043 R045 R303 R740

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; M9999 M2802 ; L9999 L2802 ; K9427 ; H0000 ; S9999 S1285*R ; P1150 ; P1343 Polymer Index [1.2] 018 ; R00338 G0544 G0022 D01 D12 D10 D51 D53 D58 D69 D82 Cl 7A ; M9999 M2802 ; L9999 L2802 ; K9427 ; H0000 ; S9999 S1285*R ; P1796 P1809 Polymer Index [1.3] 018 ; ND01 ; ND07 ; N9999 N5721*R ; K9574 K9483 ; K9676*R ; Q9999 Q8504 Q8366 ; B9999 B5243*R B4740 ; B9999 B4671 B4568 ; B9999 B3623 B3554 ; B9999 B4864 B4853 B4740 ; B9999 B3372*R ; N9999 N6939*R ; Q9999 Q7589*R ; B9999 B4660 B4568 ; K9701 K9676 Polymer Index [1.4] 018 ; B9999 B5265 B4740 ; K9712 K9676 ; B9999 B5403*R B5276 Polymer Index [2.1] 018 ; G0033*R G0022 D01 D02 D51 D53 ; H0000 ; H0011*R ; S9999 S1285*R ; P1150 Polymer Index [2.2] 018 ; ND01 ; ND07 ; N9999 N5721*R ; K9574 K9483 ; K9676*R ; Q9999 Q8504 Q8366 ; B9999 B5243*R B4740 ; B9999 B4671 B4568 ; B9999 B3623 B3554 ; B9999 B4864 B4853 B4740 ; B9999 B3372*R ; N9999

N6939*R ; Q9999 Q7589*R ; B9999 B4660 B4568 ; K9701 K9676 Polymer Index [3.1] 018 ; Q9999 Q6644*R Polymer Index [3.2] 018 ; ND01 ; ND07 ; N9999 N5721*R ; K9574 K9483 ; K9676*R ; Q9999 Q8504 Q8366 ; B9999 B5243*R B4740 ; B9999 B4671 B4568 ; B9999 B3623 B3554 ; B9999 B4864 B4853 B4740 ; B9999 B3372*R ; N9999 N6939*R ; Q9999 Q7589*R ; B9999 B4660 B4568 ; K9701 K9676 Polymer Index [3.3] 018 ; Q9999 Q6644*R

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SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C2000-024788
Non-CPI Secondary Accession Numbers: N2000-069410
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Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC
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(DE-19828857-$.DID.).DWPI.	1

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